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Novel Materials and Technologies for Controlled Drug Delivery Systems

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Message from the Guest Editor

Dear Colleagues,

The control of therapeutics represents a crucial point in modern pharmaceuticals. Indeed, the smart delivery of drugs enables prolonged drug release to achieve specific targets and/or to overcome biological barriers. As a matter of fact, conventional pharmaceutical forms, such as solutions, suspensions, emulsions, tablets, and capsules, often lead to scarce drug bioavailability. Moreover, to ensure maximum efficacy and safety, the drug should be delivered specifically at the target site. In this respect, recent research progress has led to the development of new controlled drug delivery systems, ranging from the macro to nano scale, including smart drug delivery systems suitable to obtain targeted delivery. This Special Issue aims to showcase recent findings about novel drug delivery systems designed for different administration routes, including transdermal and nasal ones. Notably, the use of innovative production methodologies, such as microfluidics and 3D printing, is particularly appreciated from the perspective of industrial scaling-up and applications.

Dr. Elisabetta Esposito

Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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